

FRACTIONAL FLOW® GROUNDWATER SAMPLING METHODOLOGY

80% ANNUAL AVERAGE COST SAVINGS REVIEW COMPARISON

Franklin County Solid Waste (SW), Virginia Landfill had installed a Proactive® 12 Volt Stainless Steel Sample Champ® Pump network into 29 monitoring wells and witnessed groundwater sampling costs drop by 80 percent on the average within the first half of year two. Chart FC-1 illustrates cost savings for the landfill is more than \$12,000 annually. Labor hours decreased 52%. Waste Water removal decreased 93%. The volume of disposable materials and rentals decreased an average of 89%. Overall cost savings more than doubled annually.

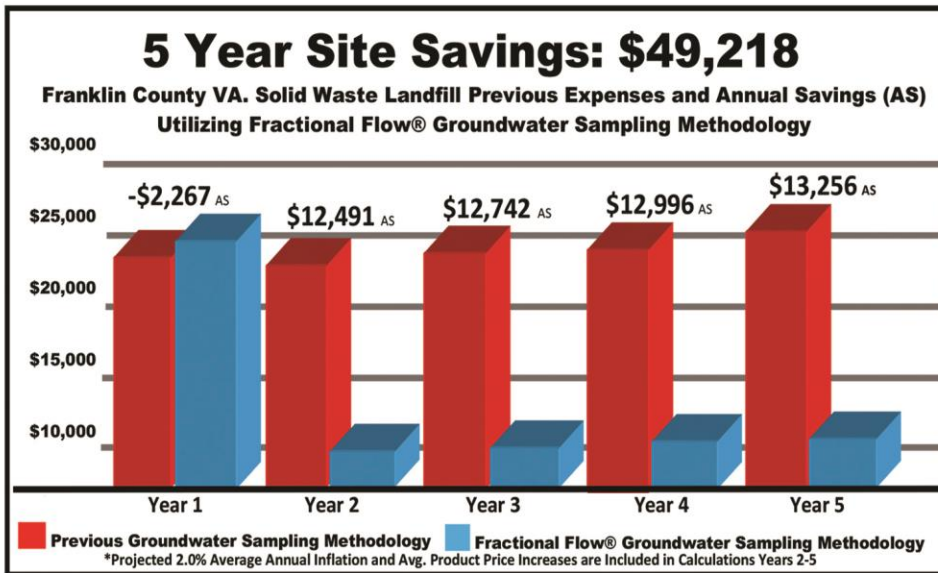


Chart FC-1

The contracted environmental consulting company for Franklin County Solid Waste (SW) Landfill, followed the inherited groundwater sampling program for many years. The program suggested to sample by means of manually bailing well-case volume to initially evacuate the wells, followed by subsequent sampling using low flow technique with a (rented) low flow pump system.

The contractor performed a time and cost comparison of the existing groundwater sampling program to Fractional Flow® groundwater sampling methodology and discovered Fractional Flow® provided a significant opportunity to save the landfill and its stakeholders time and money while removing potential cross contamination concerns.

The landfill's regulatory agency welcomed and merited Fractional Flow® as being a resourceful groundwater sampling solution and swiftly approved the change request to the existing groundwater sampling program to incorporate Fractional Flow® groundwater sampling methodology.

“stakeholders experience a significant reduction in man hours, consumables (bailers, tubing, cleaning solutions, etc.), equipment blanks, and generate a fraction of the purge and decontamination waste water by utilizing Fractional Flow® Groundwater Sampling Methodology”.

P.G. South Carolina

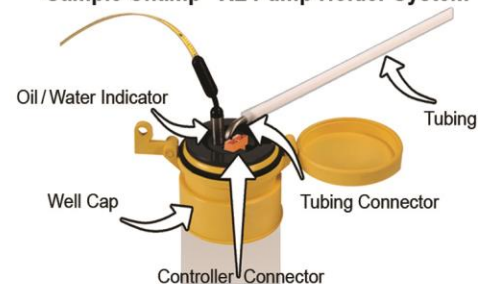
12 Volt Sample Champ® Pump



Sample Champ® Low Flow Controller



Sample Champ® XL Pump Holder System



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